

ACTIVITY DEPENDENT NEUROTROPHIC FACTOR III (ADNF III)**ABSTRACT OF THE DISCLOSURE**

5 The present invention relates generally to Activity Dependent Neurotrophic
Factor III (ADNF III), also known as Activity Dependent Neuroprotective Protein
(ADNP). More particularly, the present invention relates to nucleic acid sequences
encoding ADNF III polypeptides; ADNF III polypeptides encoded by such nucleic acid
sequences; antibodies to ADNF III polypeptides; and methods of using such ADNF III
10 polypeptides for the treatment of neurological deficiencies and for the prevention of cell
death associated with (1) gp120, the envelope protein from HIV; (2) *N*-methyl-D-aspartic
acid (excito-toxicity); (3) tetrodotoxin (blockage of electrical activity); and (4) β -amyloid
peptide, a substance related to neuronal degeneration in Alzheimer's disease.